

Natural Gas STAR International



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Background: Natural Gas STAR and Methane to Markets





Natural Gas STAR Program

The Natural Gas STAR Program is a flexible, voluntary partnership between EPA and the oil and natural gas industry designed to cost-effectively reduce methane emissions from natural gas operations.



Domestic Natural Gas STAR Partners & Endorsers

- 114 Program partners across all four sectors
 - Recommended technologies and practices come directly from partner companies and industry experts
- 18 endorser associations, including
 - American Petroleum Institute (API)
 - Colorado Oil & Gas Association (COGA)
 - Domestic Petroleum Council (DPC)
 - Gas Processors Association (GPA)
 - Independent Producer's Association of America (IPAA)
 - Independent Producers Association of Mountain States (IPAMS)
 - Interstate Oil & Gas Compact Commission (IOGCC)
 - Petroleum Association of Wyoming (PAW)
 - Petroleum Technology Transfer Council (PTTC)
 - Southern Gas Association (SGA)



Methane to Markets

- White House Initiative launched 16 November 2004, at a Ministerial Meeting in Washington, D.C.
- Second Eighteen national governments have signed on as partners, formally declaring their intent to reduce methane emissions from key sources
- "Project Network" established to involve private companies, multilateral development banks and other relevant organizations in M2M implementation and activities
- Focus on implementing sector-specific methane capture and use projects and technology transfer to developing countries and countries with economies in transition
 - Oil and gas
 - Landfills
 - Coal mines
 - Agriculture



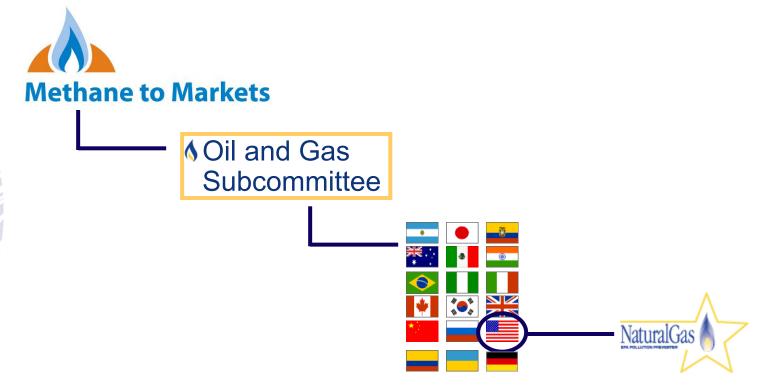
New Initiative: Natural Gas STAR International





Natural Gas STAR International Program

Under the Methane to Markets partnership, Gas STAR International is a U.S. led initiative aimed at voluntarily reducing methane emissions from international oil and natural gas operations





Methane to Markets Partner Countries

United Kingdom

United States

Argentina
Italy
Australia
Japan
Mexico
Canada
Nigeria
China
Russia
Colombia
South Korea
Ecuador
Ukraine

Germany

India



Natural Gas STAR International Key Components

- Technology transfer
 - Provide technical information and training
 - One-on-one assistance to identify and implement costeffective methane emission reduction projects

Reporting

Maintain records of voluntary actions



Technical Information

Workshops



Company Information

Company I

Annual Reports

Project Demonstrations





Natural Gas STAR Hosts International & Domestic Workshops

International

- Technology Transfer Workshop & Plant Tour
 - 6 Co-hosted by Pemex, Villahermosa, Mexico; April 25-26, 2006
- IPIECA Annual Meeting / Technology Transfer Workshop
 - September 26, 2006, Washington, DC

Opening the property of the

- Technology Transfer Workshops
 - Kenai, AK May 25, 2006 (ConocoPhillips Alaska)
 - ♦ Fort Worth, TX June 6, 2006 (Devon and PTTC)
 - Midland, TX June 8, 2006 (Occidental, PTTC, and NMOGA)
 - ♦ Hobbs, NM July 27, 2006 (Targa and GPA)
- Annual Implementation Workshop
 - Mouston, TX October 23-25, 2006



Methane Recovery Projects

Opential Gas STAR project examples



Leak inspection and repair



Change compressor maintenance and shutdown practices



Install vapor recovery on storage tanks



Reduced emission completions



Methane Recovery Projects

- Methane-saving projects are profitable in a number of ways:
 - Sales value of recovered methane and other hydrocarbons
 - Lower operating, maintenance, fuel, and capital replacement costs
 - Installing state-of-the-art, energy-efficient equipment
 - Reduced maintenance requirements
 - Potential carbon market value of captured methane
- Natural Gas STAR International can help partner companies benefit from revenue sources with:
 - Project feasibility studies
 - Demonstrations
 - Project co-funding



Natural Gas STAR International Benefits





Program Benefits for Partner Companies

- Save time identifying the "right" technologies and practices to reduce methane emissions
 - Identify projects appropriate for your operating environment
 - Technical studies and fact sheets based on industry field experiences
 - Economic analysis tools to estimate financial returns
 - One-on-one technical assistance
- Technology Transfer Workshop Series
 - Build network with industry peers and draw upon their experience and successes
 - Domestic & international workshops



Program Benefits for Partner Companies

- Enhanced corporate reputation
 - Environmental message
 - Public recognition
 - Improves local air quality
 - Improves industrial safety
 - Easy methods to quantify environmental benefits
- Voluntary record of reductions & internal benchmarking capability
 - Methodology to track and record methane emission reductions
 - Data to develop internal benchmarks
 - Flexibility and assistance in preparing methane emissions reduction summary



Joining Natural Gas STAR International





Guide to Participation

- Sign the Memorandum of Understanding (MOU)
 - Non-binding (voluntary) agreement to evaluate technologies and practices that reduce methane emissions and implement where cost-effective
- Submit an Implementation Plan
 - Summarize how Natural Gas STAR International Program will be incorporated into operations
 - Determine the scope of your participation
- Plan annual reporting process
 - Document emission reduction activities undertaken
 - Retroactive activities will be recognized



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